

ACTIVE SAFETY CIRCUIT WITH LOADS PROTECTED BY SOLID STATE RELAYS

Abstract

An active safety circuit with loads protected by solid state relays comprising several solid state relays (1, 2, 3) supplying loads, controlled in turn from a microcontroller (4) for opening said relays (1, 2, 3) in the case of an anomaly in said loads, comprising a fuse (5) inserted in a supply network (6) of relays (1, 2, 3) and a grounded shunt line (7) from one point (8) of the network (6) between said fuse (5) and relays (1, 2, 3), and a safety switch (9) controlled by said microcontroller (4) and inserted in the line (7). A temperature detector (10) is either associated to each relay (1, 2, 3) or is commonly shared by several of said relays (1, 2, 3), and the detector (19) is connected to the microcontroller (4).